

**Additional file 2 Table S2. Descriptive statistics of genetic diversity for the 20 microsatellite markers genotyped in 29 goat populations.**

Locus	NA	Freq Null Alleles	$H_e$	$H_o$	$F_{IS}$	$F_{ST}$	$F_{IT}$	HWEd
BM1329	12	0.024	0.763	0.755	0.020 ± 0.020	0.070 ± 0.017	0.088 ± 0.018	0
BM6506	12	0.043	0.687	0.629	0.072 ± 0.023	0.105 ± 0.023	0.169 ± 0.028	1
BM6526	21	0.018	0.737	0.721	0.015 ± 0.019	0.102 ± 0.021	0.115 ± 0.023	0
BM8125	9	0.015	0.670	0.685	-0.007 ± 0.020	0.078 ± 0.027	0.072 ± 0.035	1
CSRM60	12	0.034	0.753	0.702	0.059 ± 0.020	0.059 ± 0.013	0.114 ± 0.022	1
CSRD247	13	0.021	0.770	0.735	0.053 ± 0.017	0.093 ± 0.016	0.141 ± 0.016	1
ETH010	7	0.031	0.599	0.561	0.066 ± 0.025	0.062 ± 0.021	0.123 ± 0.031	0
ETH225	6	0.027	0.199	0.195	0.015 ± 0.030	0.023 ± 0.010	0.038 ± 0.028	0
HAUT27	12	0.035	0.736	0.661	0.076 ± 0.023	0.048 ± 0.011	0.120 ± 0.023	1
ILSTS011	12	0.031	0.629	0.590	0.057 ± 0.024	0.090 ± 0.022	0.142 ± 0.030	1
INRA063	8	0.066	0.588	0.48	0.159 ± 0.032	0.068 ± 0.015	0.216 ± 0.030	1
MAF065	14	0.028	0.802	0.762	0.042 ± 0.020	0.067 ± 0.014	0.107 ± 0.023	1
MAF209	3	0.053	0.293	0.282	0.041 ± 0.035	0.060 ± 0.027	0.098 ± 0.051	0
McM527	13	0.048	0.688	0.616	0.091 ± 0.024	0.062 ± 0.016	0.148 ± 0.027	1
MM12	20	0.032	0.856	0.803	0.060 ± 0.025	0.055 ± 0.013	0.112 ± 0.025	1
OarFCB048	13	0.031	0.809	0.767	0.060 ± 0.019	0.051 ± 0.010	0.108 ± 0.018	0
OarFCB304	22	0.054	0.703	0.602	0.147 ± 0.026	0.078 ± 0.016	0.213 ± 0.030	2
SPS115	4	0.097	0.484	0.404	0.163 ± 0.040	0.070 ± 0.023	0.222 ± 0.041	2
SRCRSP08	11	0.048	0.632	0.586	0.066 ± 0.025	0.140 ± 0.032	0.196 ± 0.032	0
TGLA122	12	0.029	0.646	0.616	0.056 ± 0.025	0.070 ± 0.013	0.122 ± 0.024	0
<i>Mean value</i>	11.8	0.038	0.652	0.608	0.064 ± 0.010	0.073 ± 0.005	0.133 ± 0.010	0.7

NA. total number of alleles;  $H_e$ . expected heterozygosity;  $H_o$ . observed heterozygosity;  $F_{IS}$ ,  $F_{ST}$  and  $F_{IT}$  Wright's F- statistics; HWd. number of breeds showing deviations from Hardy-Weinberg equilibrium (HWEd) ( $P < 0.001$ )